

INTERNATIONAL TELECOMMUNICATION UNION

**WRC-99**WORLD
RADIOCOMMUNICATION
CONFERENCE**Document USA_PV_01-E****22 April 1998****Original: English**GENEVA, 8 NOVEMBER – 3 DECEMBER 1999

PLENARY MEETING**United States of America****DRAFT PRELIMINARY VIEW**

INCORPORATION BY REFERENCE

Introduction

Agenda item 2 for WRC-99 reads as follows:

2 to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations which have been communicated by the 1999 Radiocommunication Assembly, in accordance with Resolution **28 (WRC-95)**; and decide whether or not to update the corresponding references in the Radio Regulations, in accordance with principles contained in the Annex to Resolution **27 (Rev.WRC-97)**;¹

Draft Preliminary View

Every citation of an ITU-R Recommendation² in the Radio Regulations has been examined. A possible disposition in each case is set forth in the Annex. In general the text of the Radio Regulations appearing in WRC-97 Document No. 2 has been used. Exceptionally, where the text of an ITU-R Recommendation was addressed by the 1997 Radiocommunication Assembly, the text appearing in its pink document series is referenced in the Remark column.

¹ See Resolution 721/GTPLEN1-3 (WRC-97).

² Several ITU-T Recommendations appearing in the Radio Regulations are also treated.

S Art	Provi sion	Existing Provision Text	Possible Disposition	Year	Remark
1	14	Coordinated Universal Time (UTC): Time scale, based on the second (SI), <u>using the definition as defined</u> in <i>ITU-R Recommendation ITU-R</i> <i>TF.460-45</i>	MOD	1997	Pink - 7/1020
1	153	...Unless otherwise specified in an <i>ITU-R Recommendation</i> for the appropriate class of emission, the value of $\beta/2$ should be taken as 0.5%.	NOC		
1	156	...For different classes of emission, the relationships between peak envelope power, mean power and carrier power, under the conditions of normal operation and of no modulation, are contained in <i>ITU-R</i> <i>Recommendations</i> which may be used as a guide....	<u>NOC</u>		
1	167	Permissible Interference ¹ : Observed or predicted interference which complies with quantitative interference and sharing criteria contained in these Regulations or in <i>ITU-R Recommendations</i>	<u>NOC</u>		
3	2	Also, as far as is compatible with practical considerations, the choice of transmitting, receiving and measuring equipment shall <u>should</u> be based on the most recent advances in the technique as indicated, inter alia, in <i>ITU-R</i> <i>Recommendations</i> .	MOD		

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3	4	To the maximum extent possible, equipment to be used in a station should apply signal-processing methods which enable the most efficient use of the frequency spectrum in accordance with the relevant <i>ITU-R Recommendations</i>	<u>(MOD)</u>		Two words used as an adjective are hyphenated.
3	7	...transmitting stations should, to the maximum extent possible, satisfy the requirements ... specified in the most recent <i>ITU-R Recommendations</i> (see Resolution 27 (Rev. WRC-97)).	<u>NOC</u>		
3	14	...The technique of measurements and the intervals of measurements to be employed shall be, as far as is practicable, in accordance with the most recent <i>ITU-R Recommendations</i> .	<u>NOC</u>		
5	138	...In applying this provision, administrations shall have due regard to <u>consult</u> the latest relevant <i>ITU-R Recommendations</i> .	MOD		A simpler, transitive formulation is preferred.
5	208A	...The threshold levels of interference detrimental to the radio astronomy service are shown in Table 1 of <i>Recommendation ITU-R RA.769-1</i> .	<u>NOC</u>		
5	287	...The characteristics of the equipment used shall conform to those specified in <i>Recommendation ITU-R M.1174</i> (see Resolution 341).	<u>NOC</u>	1995	

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5	288	...The characteristics of the equipment used shall conform to those specified in <i>Recommendation ITU-R M.1174</i> .	<u>NOC</u>	1995	
5	458C	Administrations making submissions ... shall consult on the basis of relevant <i>ITU-R Recommendations</i> with the administrations that have notified....	<u>NOC</u>		
5	474	In the band 9 200 - 9 500 MHz, search and rescue transponders (SART) may be used, having due regard to the appropriate <i>ITU-R Recommendation</i> (see also Article S31).	<u>NOC</u>		
5	503A	...advantage should be taken of the consultation process and the information given in <i>Recommendation ITU-R SA.1071</i> .	<u>NOC</u>		
5	511A	...In the space-to-Earth direction, the minimum earth station elevation angle above and gain towards the local horizontal plane and the minimum coordination distances to protect an earth station from harmful interference shall be in accordance with <i>Recommendation ITU-R S.1341</i> The threshold levels of interference and associated power flux-density limits which are detrimental to the radio astronomy service are given in <i>Recommendation ITU-R RA.769-1</i>	<u>NOC</u>	1997	Pink - 4/1007

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9	50.1	In the absence of specific provisions in these Regulations relating to the evaluation of interference, the calculation methods and the criteria should be based on relevant <i>ITU-R Recommendations</i> agreed by the administrations concerned.	<u>NOC</u>		
13	19	... Where requirements arise for new data for which there are no such decisions or Recommendations the Bureau shall develop such data..., and shall revise them when appropriate decisions or Recommendations are available.	<u>NOC</u>		
15	10	The out-of-band emissions of transmitting stations should not cause harmful interference to services which operate in adjacent bands in accordance with these Regulations and which use receivers in conformity with Nos. S3.3, S3.11, S3.12, S3.13 and relevant <i>ITU-R Recommendations</i> .	<u>NOC</u>		
15	12.1	In this matter, administrations should be guided by the latest relevant <i>ITU-R Recommendation</i> .	<u>NOC</u>		
15	13.1	In this matter, administrations should be guided by the latest relevant <i>ITU-R Recommendation</i> .	<u>NOC</u>		
16	1	...administrations agree to continue the development of monitoring facilities..., taking into account the relevant <i>ITU-R Recommendations</i> .	<u>NOC</u>		

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16	2	The international monitoring system comprises only those monitoring stations which have been so nominated by administrations in the information sent to the Secretary-General in accordance with <i>Recommendation ITU-R SM.1139</i> .	<u>NOC</u>		
16	6	Administrative and procedural requirements for use and operation of the international monitoring system should be in accordance with the provisions of <i>Recommendation ITU-R SM.1139</i> .	<u>NOC</u>		
19	3	Where practicable and in appropriate services, identification signals should be automatically transmitted in accordance with relevant <i>ITU-R Recommendations</i> .	<u>NOC</u>		
19	23	To the extent possible the identification signal should be transmitted in accordance with relevant <i>ITU-R Recommendations</i> .	<u>NOC</u>		
19	24	Administrations should ensure that wherever practicable superimposed identification methods be employed in accordance with <i>ITU-R Recommendations</i> .	<u>NOC</u>		
19	38	Each administration shall choose the call signs and, if the selective calling system used is in accordance with <i>Recommendation ITU-R M.257-3</i> , the ship station selective call numbers...;	<u>NOC</u>	1995	

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19	48	...combinations reserved for the abbreviations to be used in the radiocommunication services (see <i>Recommendation ITU-R M.1172</i>).	<u>NOC</u>	1995	
19	83	When <u>a</u> stations of the maritime mobile service uses selective calling devices in accordance with <i>Recommendations ITU-R M.476-5, M.625-3, M.627-1</i> and <i>M.257-3</i> , their <u>its</u> call numbers shall be assigned by the responsible administrations in accordance with the provisions below.	(MOD)		
19	92	In cases where ... and the selective calling system is in accordance with <i>Recommendation ITU-R M.257-3</i> , the selective call numbers and identification numbers shall be supplied by the Secretary-General on request.	<u>NOC</u>	1995	
19	99	..., the responsible administration shall assign the identity ... in accordance with the provisions described in Nos. S19.100 to S19.126; in so doing, it should take into account the relevant <i>ITU-R</i> and <i>ITU-T Recommendations</i> .	<u>NOC</u>		ITU-T Rec
19	112	[Administrations should:] a) follow the guidelines contained in the relevant <i>ITU-R</i> and <i>ITU-T Recommendations</i> for the assignment of ship station identities;	<u>NOC</u>		ITU-T Rec

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19	115	Administrations should: d) assign one-trailing-zero or two-trailing-zero identities to vessels when they require automatic access only on a national or regional level, as defined in the relevant <i>ITU-T Recommendations</i> ;	<u>NOC</u>		ITU-T Rec
19	126	The identity may be assigned to stations of one administration which are located in only one geographical region as indicated in the relevant <i>ITU-T Recommendation</i> .	<u>NOC</u>		ITU-T Rec
21	1	Sites and frequencies for terrestrial stations and earth stations ... shall be selected having regard to the relevant <i>ITU-R Recommendations....</i>	<u>NOC</u>		
21	2.2	Information on this subject is given in the most recent version of <i>Recommendation ITU-R SF.765</i> .	<u>NOC</u>		
21	4.1	Information on this subject is given in the most recent version of <i>Recommendation ITU-R SF.765</i> (see Resolution 27 (Rev. WRC-97)).	<u>NOC</u>		
21	6.1	...Therefore any limits concerning inter-Regional interference which may appear in <i>ITU-R Recommendations</i> should, as far as practicable, be observed by administrations.	<u>NOC</u>		

S Art	Provi sion	Existing Provision Text	Possible Disposition	Year	Remark
21	12.1	...Therefore any limits concerning inter-Regional interference which may appear in <i>ITU-R Recommendations</i> should, as far as practicable, be observed by administrations.	<u>NOC</u>		
21	16.1	...Therefore any limits concerning inter-Regional interference which may appear in <i>ITU-R Recommendations</i> should, as far as practicable, be observed by administrations.	<u>NOC</u>		
22	1	In applying the provisions of this Article, the level of accepted interference (see No. S1.168) shall be fixed by agreement between the administrations concerned, using the relevant <i>ITU-R Recommendations</i> as a guide.	<u>NOC</u>		See A.S22.1
22	22.2	The level of harmful interference is determined by agreement between the administrations concerned, with the guidance of the relevant <i>ITU-R Recommendations</i> .	<u>NOC</u>		
26	6	... administrations shall be guided by the relevant <i>ITU-R Recommendations</i> .	NOC		
29	12	...administrations are urged to bear in mind ... interference from space and airborne transmitters (for further information, see <i>Recommendation ITU-R RA.769</i>).	<u>NOC</u>		

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29	13	Administrations shall take note of the relevant <i>ITU-R Recommendations</i> ...	<u>NOC</u>		
30	1	Distress, urgency and safety transmissions may also be made ... in accordance with the provisions of Appendix S13 and relevant <i>ITU-R Recommendations</i> .	<u>NOC</u>		
32	5	Digital selective calling shall be in accordance with the relevant <i>ITU-R Recommendations</i> .	(SUP)		Note 54.2.
32	7	...the abbreviations and signals in accordance with <i>Recommendation ITU-R M.1172</i> should be used where applicable.	<u>NOC</u>		
32	9.3	The format of distress calls and distress messages shall be in accordance with the relevant <i>ITU-R Recommendations</i> .	SUP		
32	21	Acknowledgement by digital selective calling of receipt of a distress alert in the terrestrial services shall be in accordance with relevant <i>ITU-R Recommendations</i> .	SUP		
32	43	Error correction techniques in accordance with relevant <i>ITU-R Recommendations</i> shall be used ...	SUP		
32	64	Locating signals shall be in accordance with the relevant <i>ITU-R Recommendations</i> (see Resolution 27 (Rev.WRC-97)).	SUP		

S Art	Provi sion	Existing Provision Text	Possible Disposition	Year	Remark
33	17	Error correction techniques in accordance with relevant <i>ITU-R Recommendations</i> shall be used for urgency messages by direct-printing telegraphy....	SUP		
33	37	Error correction techniques in accordance with relevant <i>ITU-R Recommendations</i> shall be used for safety messages by direct-printing telegraphy....	SUP		
33	41	The mode and format of the transmissions mentioned in Nos. S33.43, S33.45, S33.46 and S33.48 shall be in accordance with the relevant <i>ITU-R Recommendations</i> .	SUP		
34	1	The emergency position-indicating radiobeacon signal ... shall be in accordance with relevant <i>ITU-R Recommendations</i> (see Resolution 27 (Rev.WRC-97)).	SUP		
34	2	The characteristics of the “distress call” ... shall be in accordance with relevant <i>ITU-R Recommendations</i> (see Resolution 27 (Rev.WRC-97)).	SUP		
47	26	...certificate is authorized to embark as chief operator of a ship station of the fourth category (see in <u>accordance with</u> <i>Recommendation ITU-R M.1169</i>).	MOD	1995	

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47	27	However, before becoming chief or sole operator of a ship station of the fourth category (see in <u>accordance with Recommendation ITU-R M.1169</u>) which is required by international agreements to carry a radiotelegraph operator, the holder of a radiocommunication general operator's certificate or a first- or second-class radiotelegraph operator's certificate shall have had....	MOD	1995	
47	28	Before becoming chief operator of a ship station of the second or third category (see in <u>accordance with Recommendation ITU-R M.1169</u>), the holder of a radiocommunication general operator's certificate or a first- or second-class radiotelegraph operator's certificate shall have had, as operator on board ship or in a coast station, at least six months' experience of which at least three months shall have been on board ship.	MOD	1995	
47	29	Before becoming chief operator of a ship station of the first category (see in <u>accordance with Recommendation ITU-R M.1169</u>), the holder of a radiocommunication general operator's certificate or a first-class radiotelegraph operator's certificate shall have had, as operator on board ship or in a coast station, at least one year's experience of which at least six months shall have been on board ship.	MOD	1995	

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50	9	The services of ship stations for international public correspondence shall be provided in accordance with the provisions of <i>Recommendation ITU-R M.1169</i> .	<u>NOC</u>	1995	
51	25	The characteristics of the digital selective calling equipment shall be in accordance with <i>ITU-R Recommendations</i> (see Resolution 27 (Rev.WRC-97)).	SUP		Note RR 54.2.
51	35	[All ship stations equipped with ... shall be able to:] send and receive class F1B or J2B emissions on an international calling channel (see in <u>accordance with Recommendation ITU-R M.541-68</u>) ...;	MOD	1997	Pink - 8/1010
51	41	The characteristics of the ... equipment shall be in accordance with <i>Recommendations ITU-R M.476-5, M.625-3 and M.627-1</i> .	<u>NOC</u>		
51	71	...radiotelephone calling may be renewed as specified in <i>Recommendation ITU-R M.1171</i> and radiotelegraph calling may be renewed after an interval of five minutes, notwithstanding <i>Recommendation ITU-R M.1170</i> .	<u>NOC</u>	1995	
51	77	except as provided in No. S51.75, aircraft station transmitters shall comply with ... <i>Recommendation ITU-R M.489-2</i> ;	<u>NOC</u>	1995	

S Art	Provi sion	Existing Provision Text	Possible Disposition	Year	Remark
52	23	b) by coast stations to announce by means of Morse telegraphy the transmission of their traffic lists under the conditions provided for in <i>Recommendation ITU-R M.1170</i> .	<u>NOC</u>	1995	
52	25	Before transmitting on 500 kHz, <u>a stations must shall listen ... (see in accordance with Recommendation ITU-R M.1170).</u>	MOD	1995	For alignment.
52	27	The general calling frequency which, except as provided under <i>Recommendation ITU-R M.492-6</i> , shall be used by any ... station engaged in radiotelegraphy....	<u>NOC</u>	1995	
52	31	The frequency for replying ... shall be as follows: either 500 kHz, or the frequency specified by the calling station <u>(see in accordance with... Recommendation ITU-R M.1170).</u>	MOD	1995	
52	32	In regions of heavy traffic, coast stations may answer calls made by ship stations of their own nationality in accordance with special arrangements made by the administration concerned <u>(see in accordance with Recommendation ITU-R M.1170).</u>	MOD	1995	

S Art	Provi sion	Existing Provision Text	Possible Disposition	Year	Remark
52	63	So far as is practicable, a coast station shall transmit its calls at specified times in the form of traffic lists on the frequency or frequencies indicated in the List of Coast Stations (see in accordance with <u>Recommendation ITU-R M.1170</u>).	MOD	1995	
52	69	...a coast station shall take adequate steps to ensure ... the prompt receipt of Morse radiotelegraphy calls (see in accordance with <u>Recommendation ITU-R M.1170</u>).	MOD	1995	
52	112	The characteristics of the digital selective-calling equipment shall be in accordance with the relevant <i>ITU-R Recommendations</i> (see Resolution 27 (Rev. WRC-97)).	SUP		Superfluous in the face of RR 54.2
52	148	...[ship stations should use for the call, in order of preference:] ... b) , one of the international digital selective-calling frequencies indicated in <i>Recommendation ITU-R M.541-6</i> .	<u>NOC</u>		
52	149	The international digital selective-calling frequencies indicated in <i>Recommendation ITU-R M.541-6</i> may be used by any ship station.	<u>NOC</u>		

S Art	Provi sion	Existing Provision Text	Possible Disposition	Year	Remark
52	152	...[coast stations should use for the call, in order of preference:] ... b) subject to the provisions of No. S52.153, one of the international digital selective-calling frequencies indicated in <i>Recommendation ITU-R M.541-6</i> .	<u>NOC</u>		
52	153	The international digital selective-calling frequencies indicated in <i>Recommendation ITU-R M.541-6</i> may be assigned to any coast station. ...	<u>NOC</u>		
52	159	The frequency 156.525 MHz is an international frequency ... used for distress, urgency, safety and calling by digital selective-calling techniques (see in accordance with ... <i>Recommendation ITU-R M.541-68</i>).	MOD	1997	Pink - 8/1010
52	181	Single-sideband apparatus in radiotelephone stations ... shall satisfy the technical and operational conditions specified in <i>Recommendation ITU-R M.1173</i> .	<u>NOC</u>	1995	
52	188	However, ..., coast stations may also use class H2B emissions when using the selective calling system defined in <i>Recommendation ITU-R M.257-3</i>	SUP		Not needed as there is no H2B prohibition.
52	192	[The frequency 2 182 kHz may also be used:] by coast stations to announce the transmission, on another frequency, of traffic lists (see in accordance with <i>Recommendation ITU-R M.1171</i>).	(MOD)	1995	

S Art	Provi sion	Existing Provision Text	Possible Disposition	Year	Remark
52	195	Before transmitting on the carrier frequency 2 182 kHz, a station shall listen ... to make sure that no distress traffic is being sent (see in <u>accordance with</u> <i>Recommendation ITU-R M.1171</i>).	(MOD)	1995	
52	213	...a ship station may use one of its own assigned national ship-to-shore frequencies for communication with a coast station of another nationality, under the express condition that the coast station as well as the ship station take precautions (see in <u>accordance with</u> <i>Recommendation ITU-R M.1171</i>) ...	(MOD)	1995	
52	222.1	These frequencies may also be used by coast stations with class H2B emission, when using the selective calling system defined in <i>Recommendation ITU-R M.257-3</i> .	<u>NOC</u>	1995	
52	224	... a station shall listen on the frequency for a reasonable period to make sure that no distress traffic is being sent (see in <u>accordance with</u> <i>Recommendation ITU-R M.1171</i>).	(MOD)	1995	
52	229	The technical characteristics of transmitters used for radiotelephony in the bands between 4000 kHz and 27 500 kHz are specified in <i>Recommendation ITU-R M.1173</i> .	<u>NOC</u>	1995	

S Art	Provi sion	Existing Provision Text	Possible Disposition	Year	Remark
52	231	The class of emission to be used for radiotelephony on the frequency 156.8 MHz shall be G3E (see in <u>accordance with Recommendation ITU-R M.489-2</u>).	MOD	1995	
52	234	[The frequency 156.8 MHz may also be used:] ... b) by coast stations to announce the transmission on another frequency of traffic lists and important maritime information (see in <u>accordance with Recommendation ITU-R M.1171</u>).	(MOD)		
52	235	The frequency 156.8 MHz may be used by ship stations and coast stations for selective calling as defined <u>for SSFC in Recommendation ITU-R M.257-3</u> .	MOD	1995	The application of this provision is not mandatory but, if used, the referenced procedures are. As the referenced procedures relate only to SSFC, this provision requires suitable narrowing.
52	240	... a station shall listen on this frequency for a reasonable period to make sure that no distress traffic is being sent (see in <u>accordance with Recommendation ITU-R M.1171</u>).	(MOD)	1995	

S Art	Provi sion	Existing Provision Text	Possible Disposition	Year	Remark
54	2	Selective calling may <u>must</u> be carried out using <u>either</u> a sequential single-frequency code system in accordance with <i>Recommendation ITU-R M.257-3</i> or a digital selective-calling system in accordance with <i>Recommendations ITU-R M.493-6, M.541-6, M.821</i> and <i>M.825</i> in the shore-to-ship, ship-to-shore and ship-to-ship directions.	MOD		For compatibility so as to make either of two procedures mandatory if selective calling is used.
55	1	The radiotelegraph procedure detailed in <i>Recommendation ITU-R M.1170</i> is obligatory,	<u>NOC</u>	1995	
56	2	The procedures specified in <i>Recommendation ITU-R M.492-6</i> should be employed except....	<u>NOC</u>		
56	7	...the provisions of the ... relevant <i>ITU-T Recommendations</i> should be taken into account.	<u>NOC</u>		ITU-T Rec
57	1	The procedure detailed in <i>Recommendation ITU-R M.1171</i> is applicable to radiotelephone stations,	<u>NOC</u>	1995	
58	1	The provisions of the International Telecommunications Regulations, taking into account <i>ITU-T Recommendations</i> , shall apply.	<u>NOC</u>		ITU-T Rec